

Owner's Manual

CD RECEIVER

DEH-4090MP

SUPER  **TUNER III** **D**

English

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, keep this manual in a safe place for future reference.*

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About this unit

! CAUTION

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so that you can hear sounds from outside the vehicle.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.
- If this unit does not operate properly, contact your dealer or nearest authorized Pioneer Service Station.

About WMA



The Windows Media™ logo printed on the box indicates that this unit can play back WMA data.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

- This unit may not operate correctly depending on the application used to encode WMA files.

About MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or

audio-on-demand applications. An independent license for such use is required. For details, please visit

<http://www.mp3licensing.com>. □

Visit our website

Visit us at the following site:

<http://pioneer.jp/group/index-e.html>

- We offer the latest information about Pioneer Corporation on our website. □

Protecting your unit from theft

The front panel can be detached to deter theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone sounds.
- You can turn off the warning tone. See *Switching the warning tone* on page 20.



Important

- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.

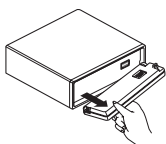
Removing the front panel

1 Press OPEN to open the front panel.

2 Grip the left side of the front panel and pull it gently outward.

Take care not to grip it too tightly or to drop the front panel and protect it from contact with water or other fluids to prevent permanent damage.

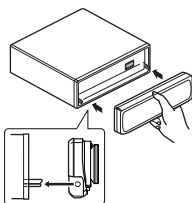
Before You Start



- 3 Put the front panel into the provided protective case for safe keeping.**

Attaching the front panel

- Reattach the front panel by holding it upright to the unit and clipping it securely into the mounting hooks.



About the demo mode

This unit features the feature demo mode.



Important

The red lead (ACC) of this unit should be connected to a terminal coupled with ignition switch on/off operations. If this is not done, the vehicle battery may be drained.

Feature demo mode

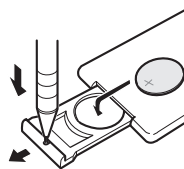
The feature demo automatically starts when power to this unit is turned off while the ignition switch is set to ACC or ON. Press **DISP** during feature demo operation to cancel the feature demo mode. Press **DISP** again to start. Remember that if the feature demo continues operating when the car engine is turned off, it may drain battery power. □

Use and care of the remote control

Installing the battery

Slide the tray on the back of the remote control out and insert the battery with the plus (+) and minus (−) poles aligned properly.

- When using for the first time, pull out the film protruding from the tray.



WARNING

Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.



CAUTION

- Use one **CR2025 (3 V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area.

Using the remote control

Point the remote control in the direction of the front panel to operate.

- The remote control may not function properly in direct sunlight.

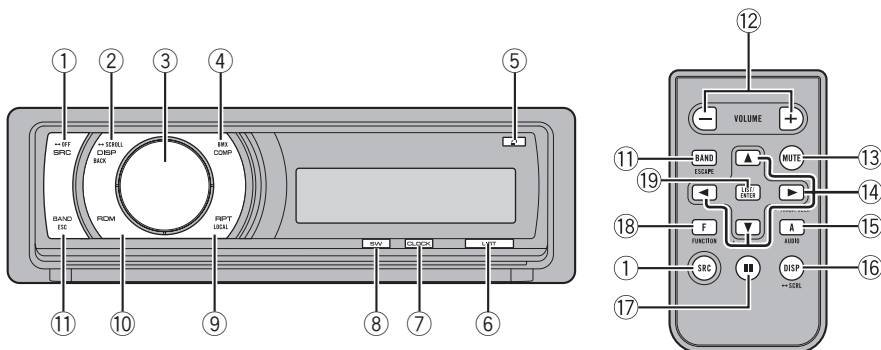
Before You Start



Important

- Do not store the remote control in high temperatures or direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal. 

Operating this unit



What's What

Head unit

① SRC/OFF button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

② DISP/BACK/SCROLL button

Press to select different displays. Press and hold to scroll the text information. Press to return to the previous display when operating the menu. Press and hold to return to the main menu when operating the menu.

③ MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Turn to increase or decrease the volume.

④ COMP/BMX button

Press to turn COMP (compression) and BMX function on or off.

⑤ OPEN button

Press to open the front panel.

⑥ LIST button

Press to display the track title list, folder list, file list or preset channel list depending on the source.

⑦ CLOCK button

Press to change to the clock display.

⑧ SW/BASS button

Press to switch to subwoofer setting menu. When operating subwoofer menu, press to switch setting. Press and hold to switch to bass boost menu. When operating bass booster, this button cannot be operated.

⑨ RPT/LOCAL button

Press to switch the repeat play range. Press to turn local function on or off while using tuner as the source.

⑩ RDM button

Press to turn random function on or off.

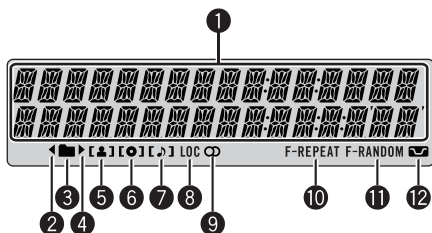
⑪ BAND/ESC button

Press to select among three FM bands and one AM band. Press to return to the ordinary display when operating menu.

Remote control

Operation is the same as when using the buttons on the head unit.

Operating this unit



12 VOLUME buttons

Press to increase or decrease the volume.

13 MUTE button

Press to turn off the sound. To turn on the sound, press again.

14 ▲/▼/◀/▶ buttons

Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

15 AUDIO button

Press to select an audio function.

16 DISP button

Press to select different displays.
Press and hold to scroll the text information.

17 II (pause) button

Press to turn pause on or off.

18 FUNCTION button

Press to select functions.

19 LIST/ENTER button

Press to display the track title list, folder list, file list or preset channel list depending on the source.

While in the operating menu, press to control functions.

Display indication

1 Main display section

Displays band, frequency, elapsed playback time and other settings.

- Tuner

Band and frequency are displayed.

- Built-in CD Player
Elapsed playback time and literal information are displayed.

2 ◀ indicator

Appears when an upper tier of folder or menu exists.

3 [] (folder) indicator

Appears when operating list function.

4 ▶ indicator

Appears when a lower tier of folder or menu exists.

5 [] (artist) indicator

Appears when the disc (track) artist name is displayed on the main display section.

6 [] (disc) indicator

Appears when the disc name is displayed on the main display section.

7 [] (track) indicator

Appears when the track name is displayed on the main display section.

8 LOC indicator

Appears when local seek tuning is on.

9 [] (stereo) indicator

Appears when the selected frequency is being broadcast in stereo.

10 F-REPEAT indicator

Appears when folder repeat is on.
When repeat function is on, only **REPEAT** is displayed.

11 F-RANDOM indicator

Appears when folder random is on.
When random function is on, only **RANDOM** is displayed.

12 [] (loudness) indicator

Appears when loudness is on. []

Operating this unit

Basic Operations

Power ON/OFF

Turning the unit on

- Press **SRC** to turn the unit on.

Turning the unit off

- Press **OFF** and hold until the unit turns off.

Selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in the unit (refer to page 11).

- Press **SRC** repeatedly to switch between the following sources.

TUNER (tuner)—**COMPACT DISC** (built-in CD player)—**AUX** (AUX)



Notes

- In the following cases, the sound source will not change.
 - When there is no disc in the unit.
 - When **AUX** (auxiliary input) is set to off (refer to page 20).
- **AUX** is set to on by default. Turn off the **AUX** when not in use (refer to *Switching the auxiliary setting* on page 20).
- Charging the portable audio player using car's DC power source while connecting it to **AUX** input may generate noise. In this case, stop charging.
- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.

Adjusting the volume

- Use **MULTI-CONTROL** to adjust the sound level. ▣

Tuner

Basic Operations

- Select a band

Press **BAND/ESC**.

- Band can be selected from among **FM1**, **FM2**, **FM3** or **AM**.

- Manual tuning (step by step)

Push **MULTI-CONTROL** left or right.

- Seek tuning

Push and hold **MULTI-CONTROL** left or right for about one second and release.

- You can cancel seek tuning by pushing **MULTI-CONTROL** left or right.
- If you push and hold **MULTI-CONTROL** left or right, you can skip stations. Seek tuning starts as soon as you release **MULTI-CONTROL**.

Storing and recalling broadcast frequencies

You can easily store up to six broadcast frequencies for later recall.

- Six stations for each band can be stored in memory.

1 Press **LIST**.

Preset screen is displayed.

2 Use **MULTI-CONTROL** to store the selected frequency in memory.

Turn to change the preset number. Press and hold to store.

- You can also store the frequency in memory by pushing and holding **MULTI-CONTROL** right.

3 Use **MULTI-CONTROL** to select the desired station.

Turn to change the station. Press to select.

- You can also change the station by pushing **MULTI-CONTROL** up or down.
- To return to the ordinary display, press **BAND/ESC** or **LIST**.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Introduction of advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

BSM (best stations memory)—**LOCAL** (local seek tuning)



Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **BACK**.
- To return to the main menu, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC**.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies.

1 Use MULTI-CONTROL to select BSM in the function menu.

2 Press MULTI-CONTROL to turn BSM on.

The six strongest broadcast frequencies are stored in the order of their signal strength.

- To cancel, press **MULTI-CONTROL** again.

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

- Press **LOCAL** repeatedly to select the desired setting.

FM: **OFF—LEVEL 1—LEVEL 2—LEVEL 3—LEVEL 4**

AM: **OFF—LEVEL 1—LEVEL 2**

The **LEVEL 4** setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.



Note

You can also perform this operation in the menu that appears by using **MULTI-CONTROL**. ■

Operating this unit

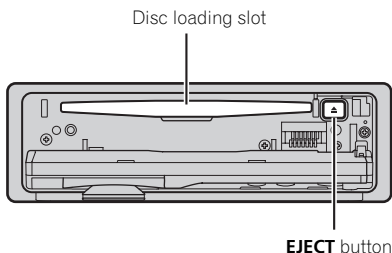
Built-in CD Player

Basic Operations

● Open the front panel

Press **OPEN**.

Disc loading slot appears.



■ When loading a disc, face the label side of a disc up.

■ To avoid a malfunction, make sure that no metal objects come into contact with the terminals when the front panel is open.

● Eject a disc

Press **EJECT**.

● Select a folder

Push **MULTI-CONTROL** up or down.

■ You cannot select a folder that does not have a compressed audio file recorded in it.

● Select a track

Push **MULTI-CONTROL** left or right.

● Fast forward or reverse

Push and hold **MULTI-CONTROL** left or right for about one second and release.

■ When playing compressed audio, there is no sound on fast forward or reverse.

● Return to root folder

Press and hold **BAND/ESC**.

■ If folder 01 (ROOT) contains no files, playback commences with folder 02.

● Switch between compressed audio and CD-DA

Press **BAND/ESC**.

■ This operation is available only when playing CD-EXTRA or MIXED-MODE CDs.

■ If you have switched between compressed audio and CD-DA, playback starts at the first track on the disc.



Notes

- The built-in CD player can play back audio CD and compressed audio recorded on a CD-ROM. (Refer to page 31 for files that can be played back.)
- Read the precautions for discs and player on page 30.
- After a disc has been inserted, press **SRC** to select the built-in CD player.
- There is sometimes a delay between starting up disc playback and the sound being issued. When being read, **FORMAT READ** is displayed.
- If an error message such as **ERROR-11** is displayed, refer to *Error messages* on page 30.
- When a CD TEXT disc is inserted, the disc and track titles automatically begin to scroll in the display. When Ever Scroll is set to ON at the initial setting, the disc and track titles scroll continuously. For more details about Ever Scroll, refer to *Switching the Ever Scroll* on page 21.
- Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 01 (ROOT) contains no files, playback commences with folder 02.)

Displaying text information on disc

● Press DISP to select the desired text information.

For title entered CD

Play time—disc title and play time

For CD TEXT discs

Play time—disc artist name and track title—disc artist name and disc title—disc title and track title—track artist name and track title—track title and play time

For WMA/MP3 discs

Play time—folder name and file name—artist name and track title—artist name and album title—album title and track title—track title and play time—comment and play time—bit rate and play time

For WAV discs

Play time—folder name and file name—sampling frequency and play time

**Notes**

- You can scroll to the left of the title by pressing and holding **DISP**.
- Audio CD that contains certain information such as text and/or number is CD TEXT.
- If specific information is not recorded on a disc, title or name is not displayed.
- Depending on the version of iTunes® used to write MP3 files onto a disc, comment information may not be correctly displayed.
 - iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- When playing back VBR (variable bit rate)-recorded WMA files, the average bit rate value is displayed.
- When playing back VBR (variable bit rate)-recorded MP3 files, **VBR** is displayed instead of bit rate value.
- The sampling frequency shown in the display may be abbreviated.
- When Ever Scroll is set to ON at the initial setting, text information scrolls continuously in the display. Refer to *Switching the Ever Scroll* on page 21.

Selecting tracks from the track title list

Track title list lets you see the list of track titles on a CD TEXT disc and select one of them to play back.

1 Press LIST to switch to the track title list mode.**2 Use MULTI-CONTROL to select the desired track title.**

Turn to change the track title. Press to play.

- You can also change the track title by pushing **MULTI-CONTROL** up or down.
- You can also play the track by pushing **MULTI-CONTROL** right.
- To return to the ordinary display, press **BAND/ESC** or **LIST**.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Selecting files from the file name list

File name list lets you see the list of file names (or folder names) and select one of them to playback.

1 Press LIST to switch to the file name list mode.

Names of files and folders appear in the display.

2 Use MULTI-CONTROL to select the desired file name (or folder name).

Turn to change the name of file or folder.

- when a file is selected, press to play.
- when a folder is selected, press to see a list of files (or folders) in the selected folder.
- when a folder is selected, press and hold to play a song in the selected folder.
- You can also play the file by pushing **MULTI-CONTROL** right.
- You can also play a song in the selected folder by pushing and holding **MULTI-CONTROL** right.
- To return to the previous list (the folder one level higher), press **BACK**. You can also perform this operation by pushing **MULTI-CONTROL** left.
- To return to the top tier of list, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC** or **LIST**.

Operating this unit

- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Introduction of advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

REPEAT (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**COMP/BMX** (compression and BMX)—**TITLE INPUT** (disc title input)



Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **BACK**.
- To return to the main menu, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC**.
- If you do not operate functions except for **TITLE INPUT** within about 30 seconds, the display automatically returns to the ordinary display.
- When playing a compressed audio disc or CD TEXT disc, you cannot switch to disc title input display.

Selecting a repeat play range

● **Press RPT repeatedly to select the desired setting.**

- **DISC** – Repeat all tracks
- **TRACK** – Repeat the current track
- **FOLDER** – Repeat the current folder

- If you select another folder during repeat play, the repeat play range changes to disc repeat.
- Performing track search or fast forward/reverse during **TRACK** (track repeat) changes the repeat play range to disc/folder.
- When **FOLDER** (folder repeat) is selected, it is not possible to play back a subfolder of that folder.



Note

You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.

Playing tracks in random order

Tracks in a selected repeat range are played in random order.

● **Press RDM to turn random play on.**

Tracks play in a random order.

- To turn random play off, press **RDM** again.



Note

You can also turn this function on or off in the menu that appears by using **MULTI-CONTROL**.

Scanning folders and tracks

Scan play searches the song within the selected repeat range.

1 Use MULTI-CONTROL to select SCAN in the function menu.

2 Press MULTI-CONTROL to turn scan play on.

The first 10 seconds of each track is played.

3 When you find the desired track press MULTI-CONTROL to turn scan play off.

- If the display has automatically returned to the playback display, select **SCAN** again by using **MULTI-CONTROL**.
- After scanning of a disc (folder) is finished, normal playback of the tracks begins.

Pausing playback

- Press **II** (pause) on the remote control to turn pause on.

Playback of the current track pauses.

- To turn pause off, press **II** (pause) again.



Note

You can also turn this function on or off in the menu that appears by using **MULTI-CONTROL**.

Using compression and BMX

Using the COMP (compression) and BMX functions let you adjust the sound playback quality of this unit.

- Press **COMP/BMX** repeatedly to select the desired setting.

COMP/BMX OFF—COMP 1—COMP 2—

COMP/BMX OFF—BMX 1—BMX 2



Note

You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.

Using disc title functions

You can input CD titles and display the title. The next time you insert a CD for which you have entered a title, the title of that CD is displayed.

Entering disc titles

Use the disc title input feature to store up to 48 CD titles in the unit. Each title can be up to 10 characters long.

- 1 Play the CD that you want to enter a title for.

- 2 Use **MULTI-CONTROL** to select **TITLE INPUT** in the function menu.

- 3 Press **MULTI-CONTROL** to display the title input mode.

- 4 Turn **MULTI-CONTROL** to select a letter of the alphabet.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

- 5 Press **MULTI-CONTROL** to move the cursor to the next character position.

- 6 After entering the title, press and hold **MULTI-CONTROL** to store it in memory.



Notes

- Titles remain in memory, even after the disc is removed from the unit, and are recalled when the disc is reinserted.
- After data for 48 discs are stored in the memory, data for a new disc overwrites the oldest one. 

Audio Adjustments

Introduction of audio adjustments

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select AUDIO.
Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the audio function.

Turn **MULTI-CONTROL** to switch between the audio functions in the following order.

FADER/BALANCE (balance adjustment)—**PRESET EQUALIZER** (graphic equalizer recall)—**EQ SETTING 1** (graphic equalizer adjustment)—**EQ SETTING 2** (graphic equalizer fine adjustment)—**LOUDNESS** (loudness)—**SW SETTING 1** (subwoofer on/off setting)—**SW SETTING 2** (subwoofer setting)—**HPF** (high pass filter)—**BASS BOOST** (bass boost)—**SRC LV ADJUST** (source level adjustment)

4 Press MULTI-CONTROL to display the setting mode of each function.

- Push **MULTI-CONTROL** left to display the function selection menu.
- Push and hold **MULTI-CONTROL** left to display the main menu.

5 Adjust the each function.



Notes

- You can also select the audio function by pressing **AUDIO** on the remote control.
- To return to the previous display, press **BACK**.
- To return to the main menu, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC**.
- When the subwoofer controller setting is **PREOUT:REAR**, you cannot switch to **SW SETTING 1** (subwoofer on/off setting). (Refer to page 20.)

- You can select the **SW SETTING 2** only when subwoofer output is turned on in **SW SETTING 1**.
- When selecting FM as the source, you cannot switch to **SRC LV ADJUST**.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.

Using balance adjustment

You can change the fader/balance setting so that it can provide the ideal listening environment in all occupied seats.

1 Use MULTI-CONTROL to select FADER/BALANCE.

2 Press MULTI-CONTROL to display the setting mode.

3 Press MULTI-CONTROL to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch between fader and balance.

4 Turn MULTI-CONTROL to adjust front/rear speaker balance.

Front/rear speaker balance can be adjusted between **FAD F15** and **FAD R15**.

Left/right speaker balance can be adjusted between **BAL L15** and **BAL R15**.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.
- **FAD 0** is the proper setting when only two speakers are used.
- When the rear output setting is **REAR SP:SUB W**, adjusting the front/rear speaker balance is not effective. Refer to *Setting the rear output and subwoofer controller* on page 20.

Using the equalizer

The equalizer lets you adjust the equalization to match the car's interior acoustic characteristics as desired.

Recalling equalizer curves

There are six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves.

Display	Equalizer curve
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM	Custom
FLAT	Flat
SUPER BASS	Super bass

- **CUSTOM** is an adjusted equalizer curve that you create. If you make adjustments to an equalizer curve, the equalizer curve setting is memorized in **CUSTOM**.
- When **FLAT** is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **FLAT** and a set equalizer curve.

- 1 Use **MULTI-CONTROL** to select **PRESET EQUALIZER**.
- 2 Press **MULTI-CONTROL** to display the setting mode.
- 3 Turn **MULTI-CONTROL** to select the equalizer.
 - You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Adjusting equalizer curves

The factory supplied equalizer curves, with the exception of **FLAT**, can be adjusted to a fine degree (nuance control).

- 1 Use **MULTI-CONTROL** to select **EQ SETTING 1**.
- 2 Press **MULTI-CONTROL** to display the setting mode.
- 3 Press **MULTI-CONTROL** to select the segment you wish to set.
Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:
L (low)—**M** (mid)—**H** (high)
- 4 Turn **MULTI-CONTROL** to adjust the level of the equalization band.
+6 to **-6** is displayed as the level is increased or decreased.
 - You can also perform the same operations by pushing **MULTI-CONTROL** up or down.
 - You can then select another band and adjust the level.
 - The equalizer curve with all frequencies set to **0** cannot be adjusted.

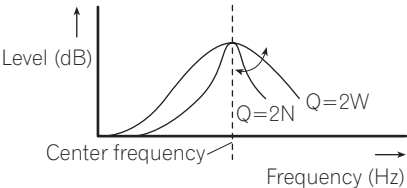


Note

A separate **CUSTOM** curve can be created for each source. If you make adjustments, the equalizer curve settings will be memorized in **CUSTOM**.

Fine-adjusting equalizer curve

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**LOW/MID/HI**).



- 1 Use **MULTI-CONTROL** to select **EQ SETTING 2**.
- 2 Press **MULTI-CONTROL** to display the setting mode.

Audio Adjustments

3 Press MULTI-CONTROL to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:

Band—Frequency—Q factor

4 Turn MULTI-CONTROL to adjust the selected segment.

Band

LOW (low)—**MID** (mid)—**HI** (high)

Frequency

Low: **40HZ—80HZ—100HZ—160HZ**

Mid: **200HZ—500HZ—1KHZ—2KHZ**

High: **3KHZ—8KHZ—10KHZ—12KHZ**

Q factor

2N—1N—1W—2W

■ You can also perform the same operations by pushing **MULTI-CONTROL** up or down.



Note

A separate **CUSTOM** curve can be created for each source. If you make adjustments, the equalizer curve settings will be memorized in **CUSTOM**. 

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Use MULTI-CONTROL to select LOUDNESS.

2 Press MULTI-CONTROL to display the setting mode.

3 Use MULTI-CONTROL to select the desired setting.

Turn to change the setting.

LOW (low)—**MID** (mid)—**HIGH** (high)—**OFF** (off)

■ You can also perform the same operations by pushing **MULTI-CONTROL** up or down. 

Using subwoofer output

This unit is equipped with a subwoofer output which can be turned on or off.

Also, phase can be selected between normal and reverse.

1 Press SW to display the subwoofer setting mode.

Press **SW** repeatedly to switch between the subwoofer setting modes in the following order.

SW SETTING 1 (subwoofer on/off setting) setting mode—**SW SETTING 2** (subwoofer setting) setting mode

2 Select SW SETTING 1 setting mode.

3 Turn MULTI-CONTROL to select the desired setting.

NORMAL (normal phase)—**REV** (reverse phase)—**OFF** (subwoofer off)

■ You can also perform the same operations by pushing **MULTI-CONTROL** up or down.



Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**.

Adjusting subwoofer settings

When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

1 Press SW to display the subwoofer setting mode.

Press **SW** repeatedly to switch between the subwoofer setting modes in the following order.

SW SETTING 1 (subwoofer on/off setting) setting mode—**SW SETTING 2** (subwoofer setting) setting mode

2 Select SW SETTING 2 setting mode.

Audio Adjustments

3 Press **MULTI-CONTROL** to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:

Cut off frequency—Level

4 Turn **MULTI-CONTROL** to adjust the selected segment.

Cut off frequency

50HZ—63HZ—80HZ—100HZ—125HZ

Level

+6 to **-24** is displayed as the level is increased or decreased.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.



Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**. 

Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn on the HPF (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers.

1 Use **MULTI-CONTROL** to select HPF.

2 Press **MULTI-CONTROL** to display the setting mode.

3 Use **MULTI-CONTROL** to select the desired setting.

Turn to change the setting.

OFF—50HZ—63HZ—80HZ—100HZ—125HZ

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down. 

Boosting the bass

Bass boost function boosts the bass level of sound.

1 Press and hold **BASS** to display **BASS BOOST** setting mode.

2 Turn **MULTI-CONTROL** to adjust the level.

0 to **+6** is displayed as the level is increased or decreased.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.



Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**. 

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the FM volume level, which remains unchanged.

1 Compare the FM volume level with the level of the source you wish to adjust.

2 Use **MULTI-CONTROL** to select **SRC LV ADJUST**.

3 Press **MULTI-CONTROL** to display the setting mode.

4 Turn **MULTI-CONTROL** to adjust the source volume.

SLA +4 to **SLA -4** is displayed as the source volume is increased or decreased.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.



Note

The AM volume level can also be adjusted with source level adjustments. 

Initial Settings

Adjusting initial settings

1 Press SRC and hold until the unit turns off.

2 Press MULTI-CONTROL and hold until CLOCK SET appears in the display.

3 Turn MULTI-CONTROL to select one of the initial settings.

CLOCK SET (clock)—**FM STEP** (FM tuning step)—**AM STEP** (AM tuning step)—

WARNING TONE (warning tone)—**AUX** (auxiliary input)—**DIMMER** (dimmer)—

SW CONTROL (rear output and subwoofer controller)—**DEMO MODE** (feature demo)—

EVER SCROLL (ever scroll)

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.
- You can also select the function by pressing **FUNCTION** on the remote control.
- To cancel initial settings, press **BAND/ESC**. 

Setting the clock

Use these instructions to set the clock.

1 Use MULTI-CONTROL to select CLOCK SET.

2 Press MULTI-CONTROL to display the setting mode.

- Press **BACK** to return to the previous display.

3 Press MULTI-CONTROL to select the segment of the clock display you wish to set.

Each time you press **MULTI-CONTROL**, one segment of the clock display is selected.

Hour—Minute

As you select segments of the clock display, the selected segment blinks.

4 Turn MULTI-CONTROL to put a clock right.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down. 

Setting the FM tuning step

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.

- If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.

1 Use MULTI-CONTROL to select FM STEP.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the FM tuning step.

Turning **MULTI-CONTROL** will switch the FM tuning step between 50 kHz and 100 kHz. The selected FM tuning step will appear in the display.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.



Note

The tuning step remains at 50 kHz during manual tuning. 

Setting the AM tuning step

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 kHz to 1 602 kHz allowable) to 10 kHz (530 kHz to 1 640 kHz allowable).

1 Use MULTI-CONTROL to select AM STEP.

2 Press MULTI-CONTROL to display the setting mode.

Initial Settings

3 Turn MULTI-CONTROL to select the AM tuning step.

Turning **MULTI-CONTROL** will switch the AM tuning step between 9 kHz and 10 kHz. The selected AM tuning step will appear in the display.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down. 

Switching the warning tone

If the front panel is not detached from the head unit within four seconds of turning off the ignition, a warning tone sounds. You can turn off the warning tone.

1 Use MULTI-CONTROL to select WARNING TONE.

2 Press MULTI-CONTROL to turn warning tone on.

- To turn warning tone off, press **MULTI-CONTROL** again. 

Switching the auxiliary setting

It is possible to use auxiliary equipment with this unit. Activate the auxiliary setting when using auxiliary equipment connected to this unit.

1 Use MULTI-CONTROL to select AUX.

2 Press MULTI-CONTROL to turn AUX on.

- To turn AUX off, press **MULTI-CONTROL** again. 

Switching the dimmer setting

To prevent the display from being too bright at night, the display is automatically dimmed when the car's headlights are turned on. You can turn the dimmer on or off.

1 Use MULTI-CONTROL to select DIMMER.

2 Press MULTI-CONTROL to turn dimmer on.

- To turn dimmer off, press **MULTI-CONTROL** again. 

Setting the rear output and subwoofer controller

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**REAR SP:FULL/**

PREOUT:REAR) or subwoofer (**REAR SP:SUB W/PREOUT:SUB W**) connection. If you switch the rear output setting to **REAR SP:SUB W**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

Initially, the unit is set for rear full-range speaker connection (**REAR SP:FULL**). When rear output is connected to full range speakers (when **REAR SP:FULL** is selected), you can connect the RCA subwoofer output to a subwoofer. In this case, you can select whether to use the subwoofer controller's (low pass filter, phase) built-in **PREOUT:SUB W** or the auxiliary **PREOUT:REAR**.

1 Use MULTI-CONTROL to select SW CONTROL.

2 Press MULTI-CONTROL to display the setting mode.

- Press **BACK** to return to the previous display.

3 Press MULTI-CONTROL to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:

REAR SP (rear speaker setting)—**PREOUT** (RCA output setting)

4 Use MULTI-CONTROL to select the desired setting.

Turn to change the setting.

When REAR SP (rear speaker setting) is selected.

Initial Settings

REAR SP:SUB W (subwoofer)—

REAR SP:FULL (full-range speaker)

When PREOUT (RCA output setting) is selected.

PREOUT:SUB W (subwoofer)—

PREOUT:REAR (full-range speaker)

- When no subwoofer is connected to the rear output, select **REAR SP:FULL**.
- When a subwoofer is connected to the rear output, set for subwoofer **REAR SP:SUB W**.



Notes

- Even if you change this setting, there is no output unless you turn the subwoofer output on (refer to *Using subwoofer output* on page 17).
- If you change this setting, subwoofer output in the audio menu return to the factory settings.
- Both rear speaker lead outputs and RCA rear output are switched simultaneously in this setting. 

Switching the feature demo

The feature demo automatically starts when power to this unit is turned off while the ignition switch is set to ACC or ON.

1 Use MULTI-CONTROL to select DEMO MODE.

2 Press MULTI-CONTROL to turn the feature demo on.

- To turn the feature demo off, press **MULTI-CONTROL** again.



Notes

- Remember that if the feature demo continues operating when the car engine is turned off, it may drain battery power.
- You can also turn on or off feature demo by pressing **DISP** while this unit is turned off. For more details, see *About the demo mode* on page 5. 

Switching the Ever Scroll

When Ever Scroll is set to ON, CD text information scrolls continuously in the display. Set to OFF if you prefer the information to scroll just once.

1 Use MULTI-CONTROL to select EVER SCROLL.

2 Press MULTI-CONTROL to turn the Ever Scroll on.

- To turn the Ever Scroll off, press **MULTI-CONTROL** again. 

Using the AUX source

You can connect an auxiliary equipment to this unit using a stereo mini plug cable.

- **Insert the stereo mini plug into the input jack on this unit.**

For more details, refer to *Connections* on the next page.

Selecting AUX as the source

- **Press SRC to select AUX as the source.**
 - If the auxiliary setting is not turned on, **AUX** cannot be selected. For more details, see *Switching the auxiliary setting* on page 20.

Setting the AUX title

The title displayed for the **AUX** source can be changed.

- 1 **After you have selected AUX as the source, use MULTI-CONTROL and select FUNCTION to display TITLE INPUT.**

- 2 **Enter a title in the same way as the built-in CD player.**

For details concerning operation, refer to *Entering disc titles* on page 14. 

Turning the clock display on or off

You can turn the clock display on or off.

- Even when the sources are off, the clock display appears on the display.

- **Press CLOCK to turn the clock display on or off.**

Each press of **CLOCK** turns the clock display on or off.

- The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds. 

Connections

Important



Important

- When this unit is installed in a vehicle without ACC (accessory) position on the ignition switch, red cable must be wired to the terminal that can detect the operation of the ignition key. Otherwise, battery drain may result.



ACC position



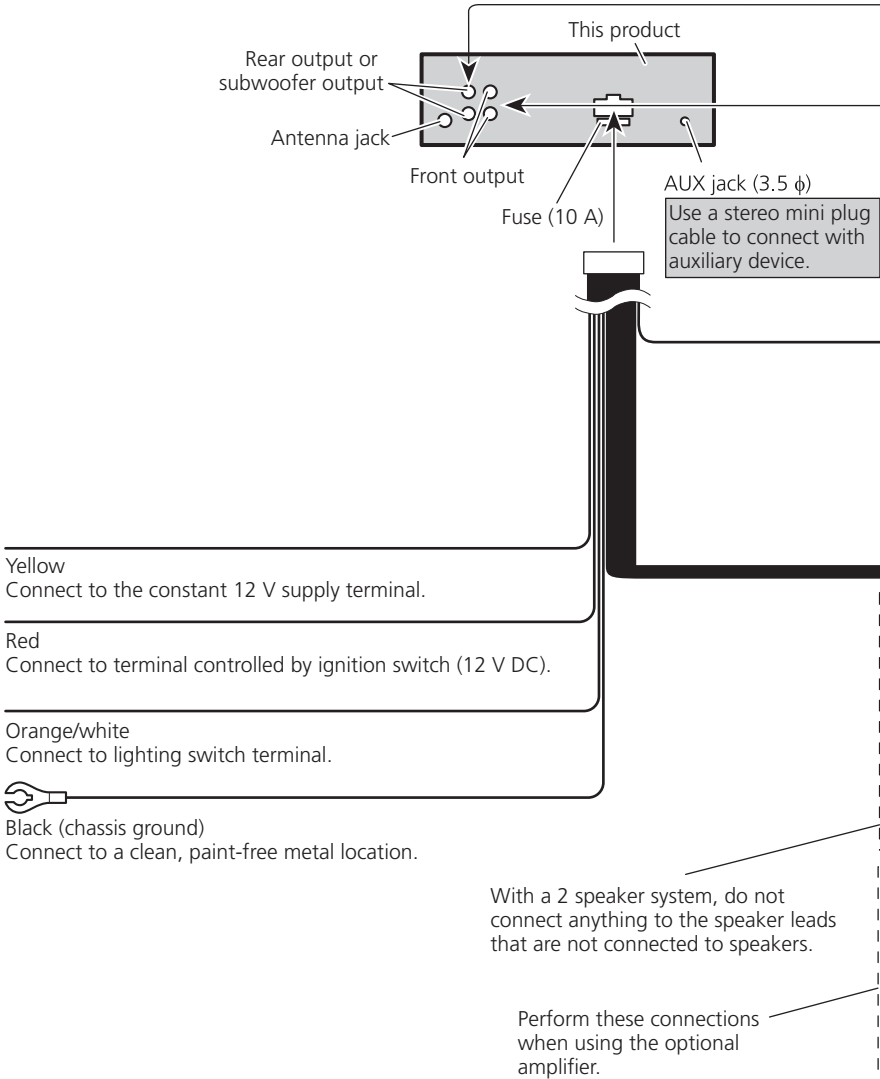
No ACC position

- Use of this unit in conditions other than the following could result in fire or malfunction.
 - Vehicles with a 12-volt battery and negative grounding.
 - Speakers with 50 W (output value) and 4 ohm to 8 ohm (impedance value).
- To prevent a short-circuit, overheating or malfunction, be sure to follow the directions below.
 - Disconnect the negative terminal of the battery before installation.
 - Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
 - Place all cables away from moving parts, such as gear shift and seat rails.
 - Place all cables away from hot places, such as near the heater outlet.
 - Do not pass the yellow cable through a hole into the engine compartment to connect to a battery.
 - Cover any disconnected cable connectors with insulating tape.
 - Do not shorten any cables.
 - Never cut the insulation of the power cable of this unit in order to share the power with other devices. Current capacity of the cable is limited.
 - Use a fuse of the rating prescribed.
 - Never wire the speaker negative cable directly to ground.

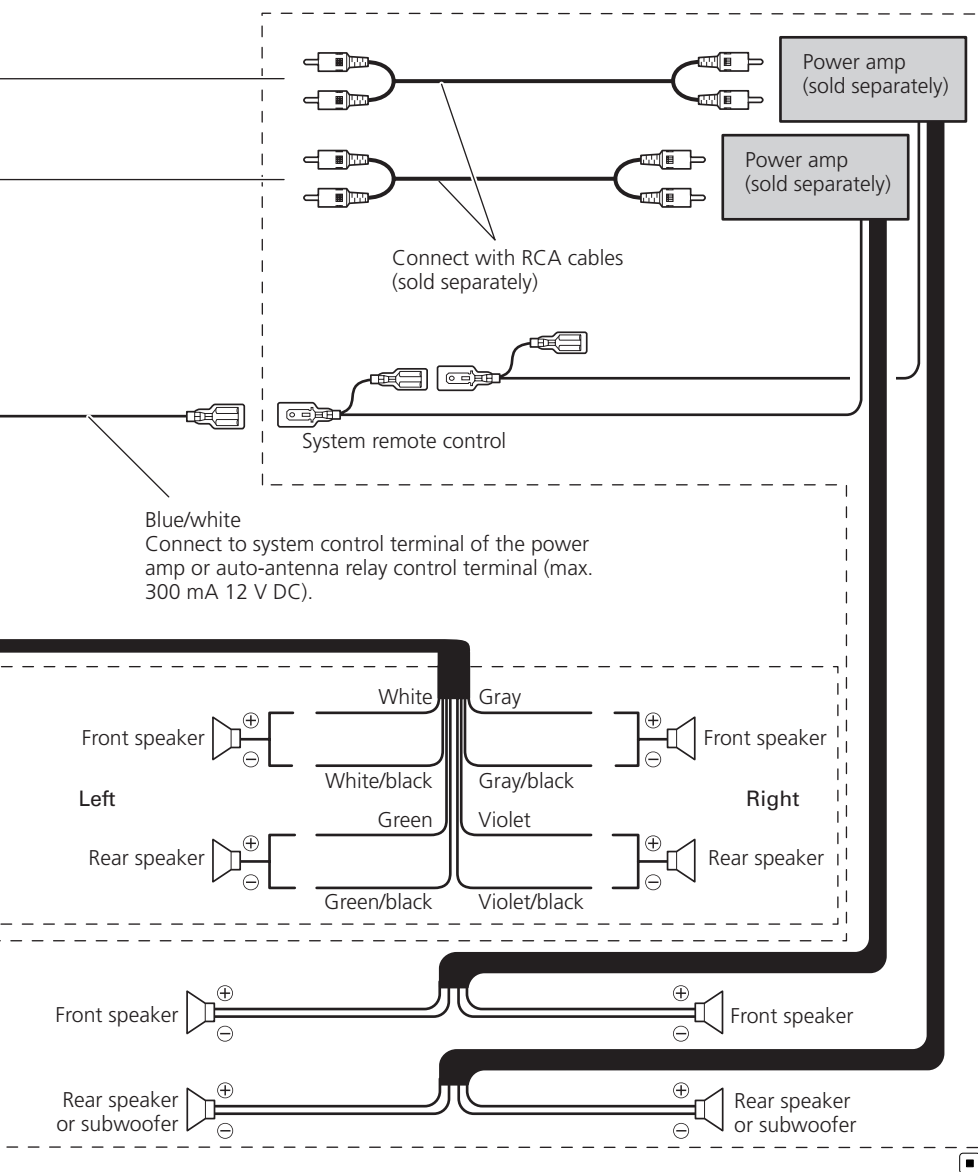
— Never band together multiple speaker's negative cables.

- Control signal is output through blue/white cable when this unit is powered on. Connect it to an external power amp's system remote control or the vehicle's auto-antenna relay control terminal (max. 300 mA 12 V DC). If the vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.
- Never connect blue/white cable to external power amp's power terminal. Also, never connect it to the power terminal of the auto antenna. Otherwise, battery drain or malfunction may result.
- Black cable is ground. This cable and other product's ground cable (especially, high-current products such as power amp) must be wired separately. Otherwise, fire or malfunction may result if they are accidentally detached.

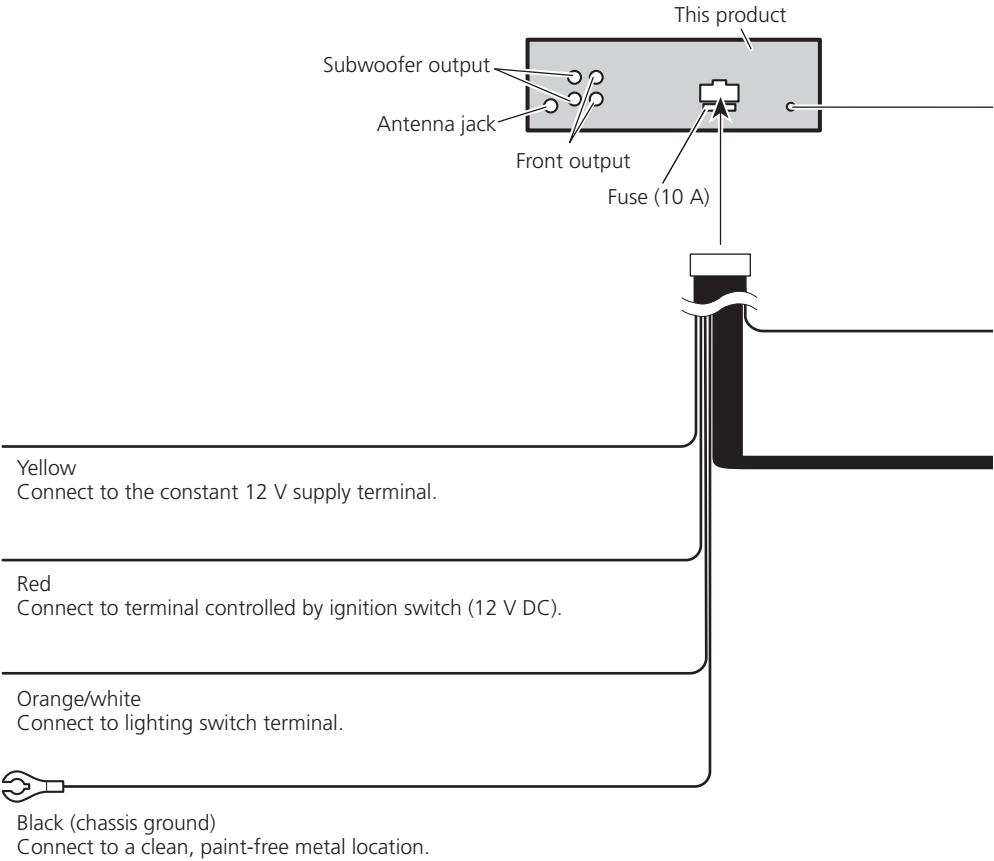
When not connecting a rear speaker lead to a subwoofer



Connections



When using a subwoofer without using the optional amplifier



Note:
Change the initial setting of this unit.
The subwoofer output of this unit is monaural.

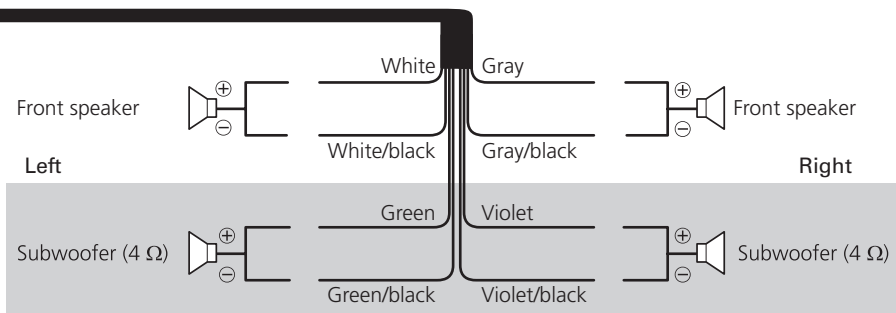
Connections

AUX jack (3.5 ϕ)

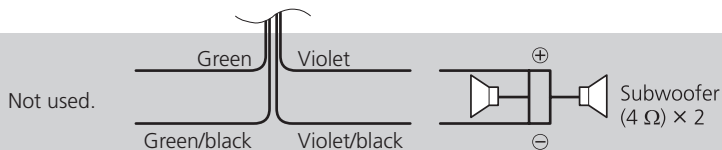
Use a stereo mini plug cable to connect with auxiliary device.

Blue/white

Connect to system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).

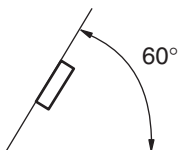


When using a subwoofer of 70 W (2 Ω), be sure to connect with Violet and Violet/black leads of this unit.
Do not connect anything with Green and Green/black leads.



**Important**

- Check all connections and systems before final installation.
- Do not use unauthorized parts. Use of unauthorized parts may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where :
 - it may interfere with operation of the vehicle.
 - it may cause injury to a passenger as a result of a sudden stop.
- The semiconductor laser will be damaged if it overheats. Install this unit away from hot places such as near the heater outlet.
- Optimum performance is obtained when the unit is installed at an angle of less than 60°.



- When installing, to ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any loose cables so they are not blocking the vents.

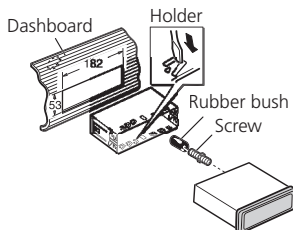
DIN front/rear mount

This unit can be properly installed either from "Front" (conventional DIN front-mount) or "Rear" (DIN rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following installation methods. ■

DIN Front-mount**Installation with the rubber bush**

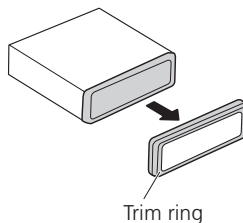
- **Install the unit into the dashboard.**

After inserting the holder into the dashboard, then select the appropriate tabs according to the thickness of the dashboard material and bend them. (Install as firmly as possible using the top and bottom tabs. To secure, bend the tabs 90 degrees.)

**Removing the unit****1 Remove the trim ring.**

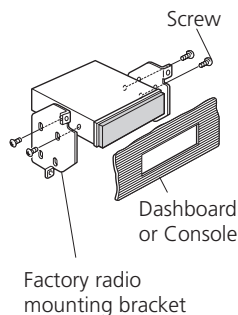
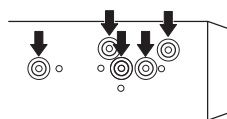
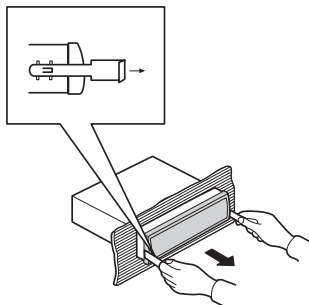
Extend top and bottom of the trim ring outwards to remove the trim ring. (When reattaching the trim ring, point the side with a groove downwards and attach it.)

- It becomes easy to remove the trim ring if the front panel is released.



Installation

2 Insert the supplied extraction keys into both sides of the unit until they click into place.



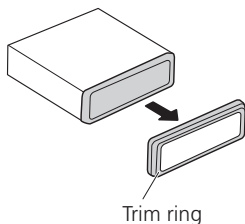
DIN Rear-mount

Installation using the screw holes on the side of the unit

1 Remove the trim ring.

Extend top and bottom of the trim ring outwards to remove the trim ring. (When reattaching the trim ring, point the side with a groove downwards and attach it.)

- It becomes easy to remove the trim ring if the front panel is released.



2 Tighten two screws on each side.

Use either truss screws (5 mm × 8 mm) or flush surface screws (5 mm × 9 mm), depending on the shape of screw holes in the bracket.

Additional Information

Error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to have the error message recorded.

Built-in CD Player

Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
ERROR-11, 12, 17, 30	Scratched disc	Replace disc.
ERROR-10, 11, 12, 15, 17, 30, A0	Electrical or mechanical	Switch the ignition key, or switch to a different source, then back to the CD player.
ERROR-15	The inserted disc does not contain any data	Replace disc.
ERROR-22, 23	The CD format cannot be played back	Replace disc.
NO AUDIO	The inserted disc does not contain any files that can be played back	Replace disc.
TRK SKIPPED	The inserted disc contains WMA files that are protected by DRM	Replace disc.
PROTECT	All the files on the inserted disc are secured by DRM	Replace disc.



Handling guideline of discs and player

- Use only discs featuring either of following two logos.



- Use only conventional, fully circular discs. Do not use shaped discs.



- Use 12-cm or 8-cm CD. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.
- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.
- Unfinalized CD-R/CD-RW disc playback is not possible.
- Do not touch the recorded surface of the discs.
- Store discs in their cases when not in use.
- Avoid leaving discs in excessively hot environments including under direct sunlight.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean a CD, wipe the disc with a soft cloth outward from the center.
- Condensation may temporarily impair the player's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any dump discs with a soft cloth.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions, and so on.
- Text information may not be correctly displayed depending on the recorded environment.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them. ■

Dual Discs

- Dual Discs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.

Additional Information

- Since the CD side of Dual Discs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this unit.
- Frequent loading and ejecting of a Dual Disc may result in scratches on the disc. Serious scratches can lead to playback problems on this unit. In some cases, a Dual Disc may become stuck in the disc loading slot and will not eject. To prevent this, we recommend you refrain from using Dual Disc with this unit.
- Please refer to the information from the disc manufacturer for more detailed information about Dual Discs. 

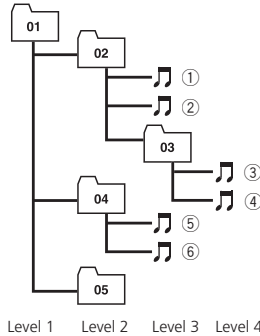
Compressed audio files on the disc

- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of WMA files encoded with image data.
- ISO 9660 Level 1 and 2 compliant. Romeo and Joliet file systems are both compatible with this player.
- Multi-session playback is possible.
- Compressed audio files are not compatible with packet write data transfer.
- Only 64 characters from the beginning can be displayed as a file name (including the extension such as .wma, .mp3 or .wav) or a folder name.
- Folder selection sequence or other operation may be altered depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.
- File extensions such as .wma, .mp3 or .wav must be used properly.

Example of a hierarchy

 Folder

 Compressed audio file



- This unit assigns folder numbers. The user cannot assign folder numbers.
- Folder hierarchy is allowed up to eight tiers. However, a practical hierarchy of folder is less than two tiers.
- Up to 99 folders on a disc can be played back.

Compressed audio compatibility

WMA

- Compatible format: WMA encoded by Windows Media Player
- Bit rate: 48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
- Sampling frequency: 32 kHz to 48 kHz
- Windows Media Audio 9 Professional, Lossless, Voice: No

MP3

- Bit rate: 8 kbps to 320 kbps
- Sampling frequency: 16 kHz to 48 kHz (32, 44.1, 48 kHz for emphasis)
- Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 tag Version 2.x is given priority than Version 1.x.)
- M3u playlist: No
- MP3i (MP3 interactive), mp3 PRO: No

Additional Information

WAV

- Compatible format: Linear PCM (LPCM), MS ADPCM
- Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM)
- Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz to 44.1 kHz (MS ADPCM) ☐

Additional Information

Specifications

General

Rated power source	14.4 V DC
	(allowable voltage range: 12.0 V to 14.4 V DC)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 50 mm × 162 mm
Nose	188 mm × 58 mm × 14 mm
D	
Chassis	178 mm × 50 mm × 162 mm
Nose	170 mm × 46 mm × 14 mm
Weight	1.5 kg

Audio

Maximum power output	50 W × 4
	50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output	22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance	4 Ω to 8 Ω × 4
	4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout max output level	2.2 V
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12 dB
Mid	
Frequency	200/500/1k/2k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12 dB
High	
Frequency	3.15k/8k/10k/12.5k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12 dB
Loudness contour:	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz)
	(volume: -30 dB)

HPF:

Frequency	50/63/80/100/125 Hz
Slope	-12 dB/oct

Subwoofer (mono):

Frequency	50/63/80/100/125 Hz
Slope	-18 dB/oct
Gain	+6 dB to -24 dB
Phase	Normal/Reverse

Bass boost:

Gain	+12 dB to 0 dB
------------	----------------

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A network)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)
	(Windows Media Player)
WAV signal format	Linear PCM & MS ADPCM
	(Non-compressed)

FM tuner

Frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio	75 dB (IEC-A network)

AM tuner

Frequency range	531 kHz to 1 602 kHz (9 kHz)
	530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IEC-A network)



Note

Specifications and the design are subject to modifications without notice due to improvements. ■

PIONEER CORPORATION

4-1, MEGURO 1-CHOME, MEGURO-KU
TOKYO 153-8654, JAPAN

PIONEER ELECTRONICS (USA) INC.

P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.
TEL: (800) 421-1404

PIONEER EUROPE NV

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium
TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.

253 Alexandra Road, #04-01, Singapore 159936
TEL: 65-6472-7555

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

178-184 Boundary Road, Braeside, Victoria 3195, Australia
TEL: (03) 9586-6300

PIONEER ELECTRONICS OF CANADA, INC.

300 Allstate Parkway, Markham, Ontario L3R 0P2, Canada
TEL: 1-877-283-5901
TEL: 905-479-4411

PIONEER ELECTRONICS DE MEXICO, S.A. de C.V.

Bvd.Manuel Avila Camacho 138 10 piso
Col.Lomas de Chapultepec, Mexico, D.F. 11000
TEL: 55-9178-4270

先鋒股份有限公司

總公司：台北市中山北路二段44號13樓
電話：(02) 2521-3588

先鋒電子（香港）有限公司

香港九龍尖沙咀海港城世界商業中心
9樓901-6室
電話：(0852) 2848-6488

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